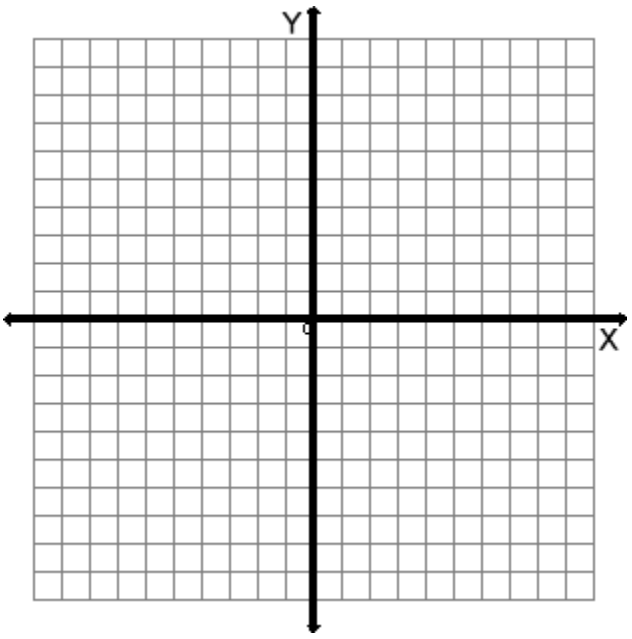
A first look at inverses Name:

1) Graph the following.

y=2x+1

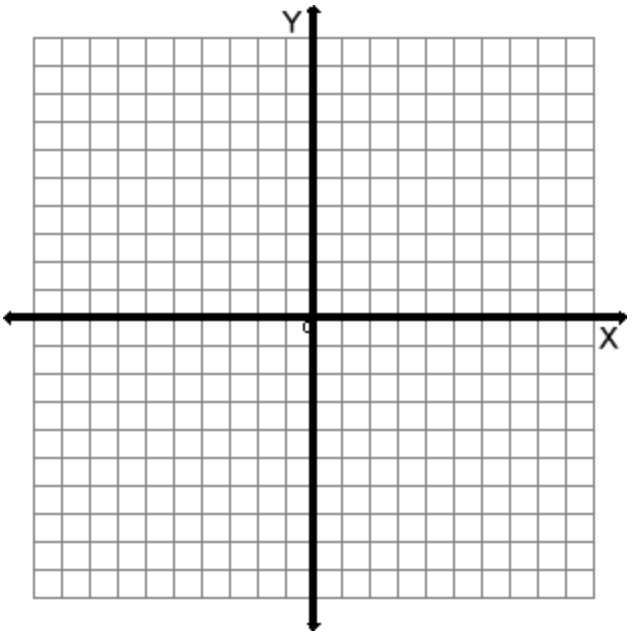
x	y
-3	
-2	
-1	
0	
1	
2	
3	



Is it a function?

Now find the inverse.

x	y
	-3
	-2
	-1
	0
	1
	2
	3

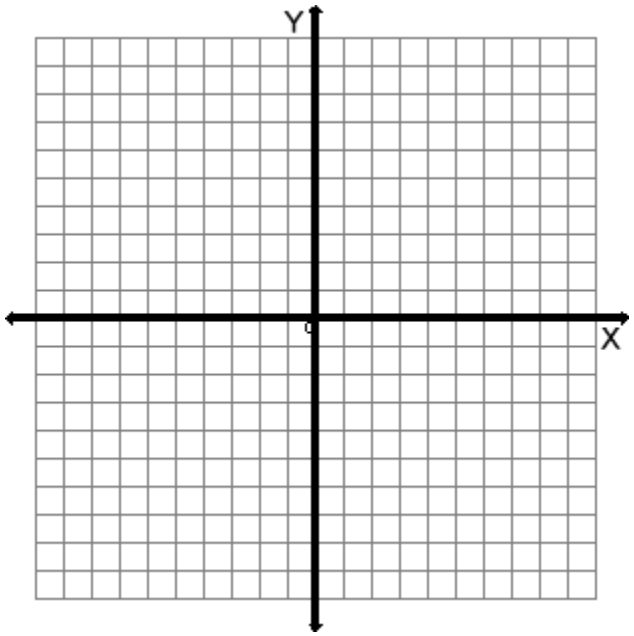


Is it a function?

2) Graph the following.

y= (1/2)x+5

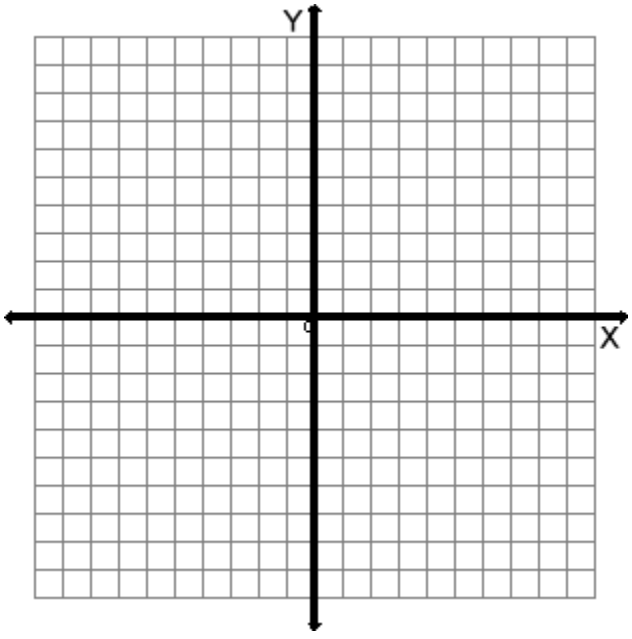
x	y
-3	
-2	
-1	
0	
1	
2	
3	



Is it a function?

Now find the inverse.

x	y
	-3
	-2
	-1
	0
	1
	2
	3

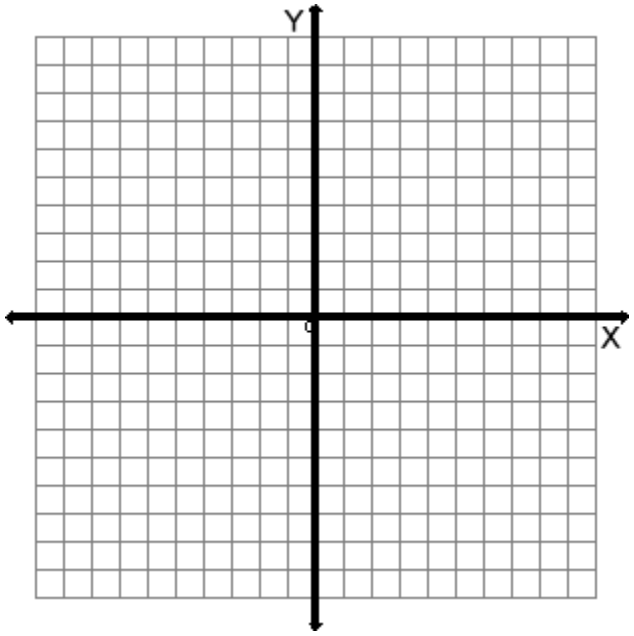


Is it a function?

3) Graph the following.

$y=x^2$

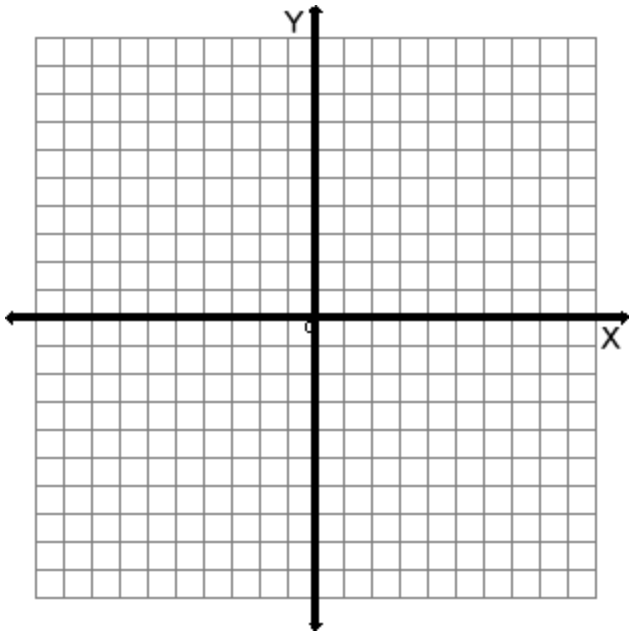
x	y
-3	
-2	
-1	
0	
1	
2	
3	



Is it a function?

Now find the inverse.

x	y
	-3
	-2
	-1
	0
	1
	2
	3

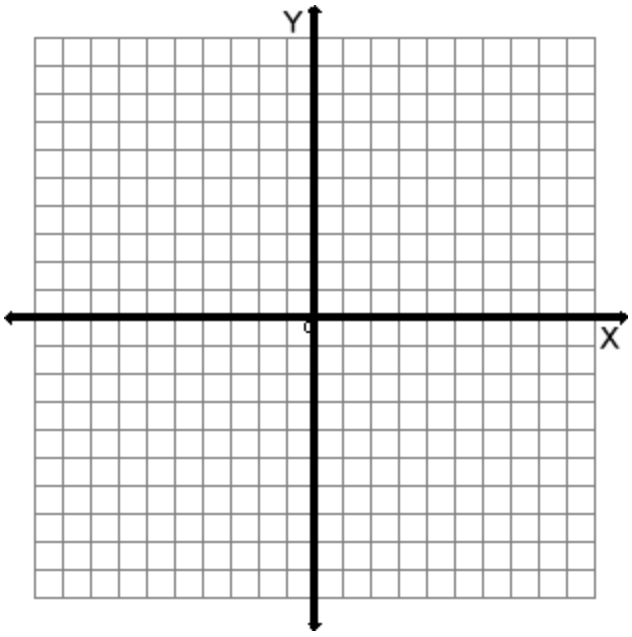


Is it a function?

4) Graph the following.

$y=\sqrt{x}$

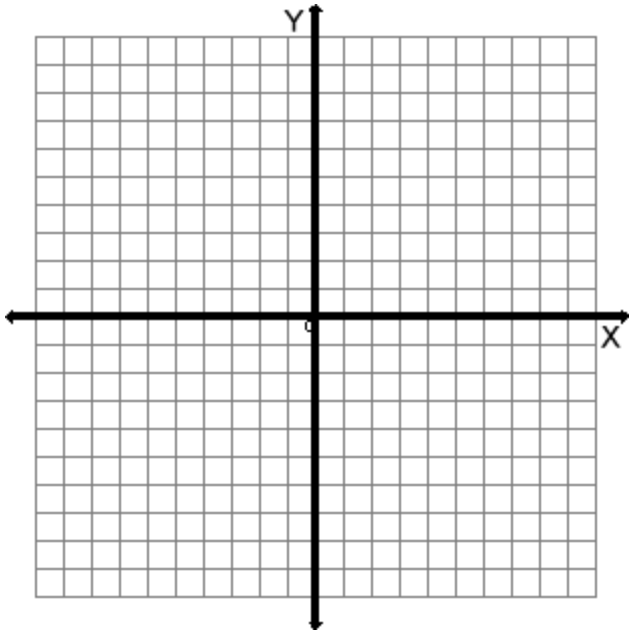
x	y
-3	
-2	
-1	
0	
1	
2	
3	



Is it a function?

Now find the inverse.

x	y
	-3
	-2
	-1
	0
	1
	2
	3

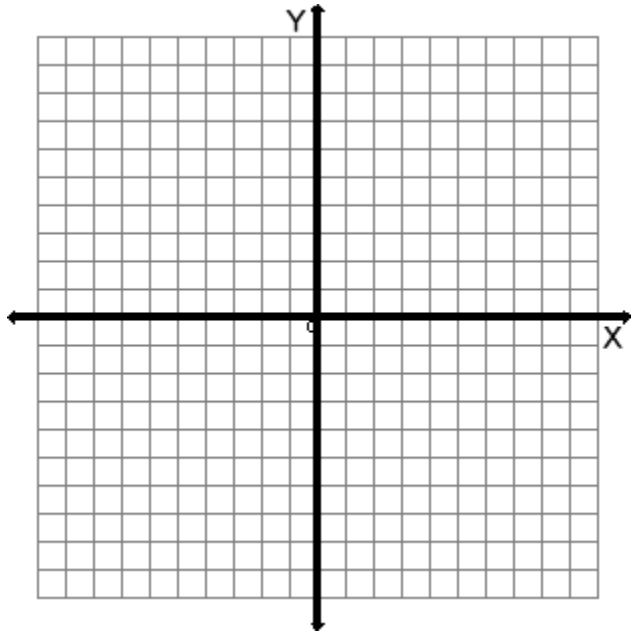


Is it a function?

5) Graph the following.

y=1/x

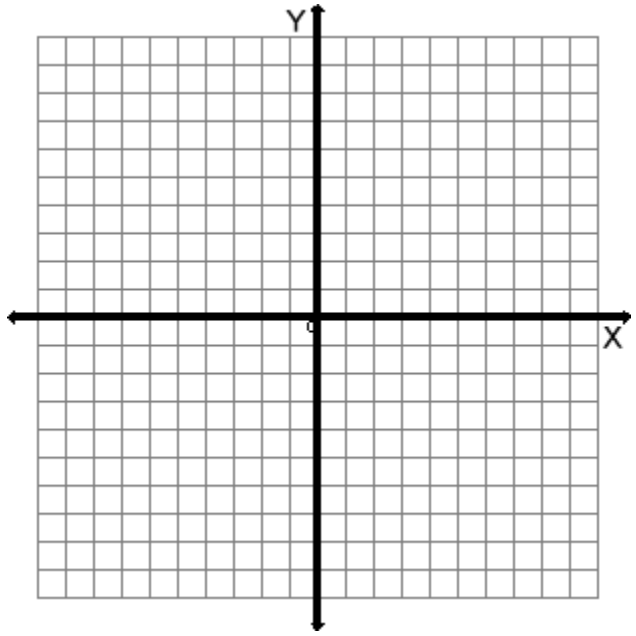
x	y
-3	
-2	
-1	
0	
1	
2	
3	



Is it a function?

Now find the inverse.

x	y
	-3
	-2
	-1
	0
	1
	2
	3

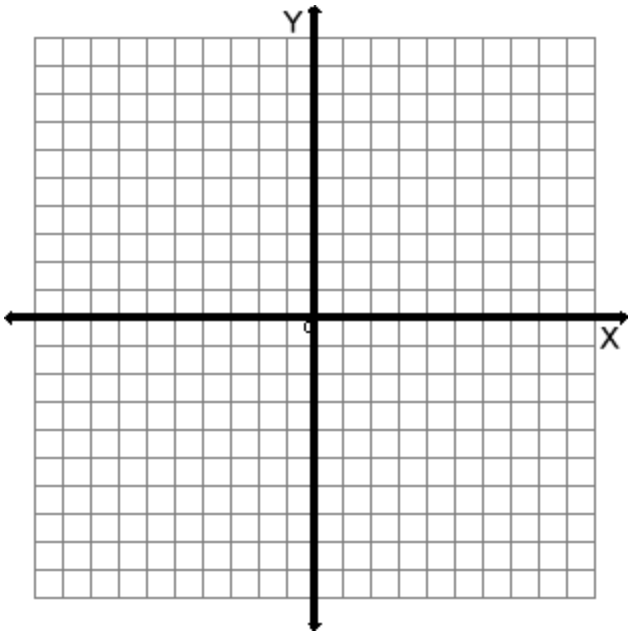


Is it a function?

6) Graph the following.

$y=x^3$

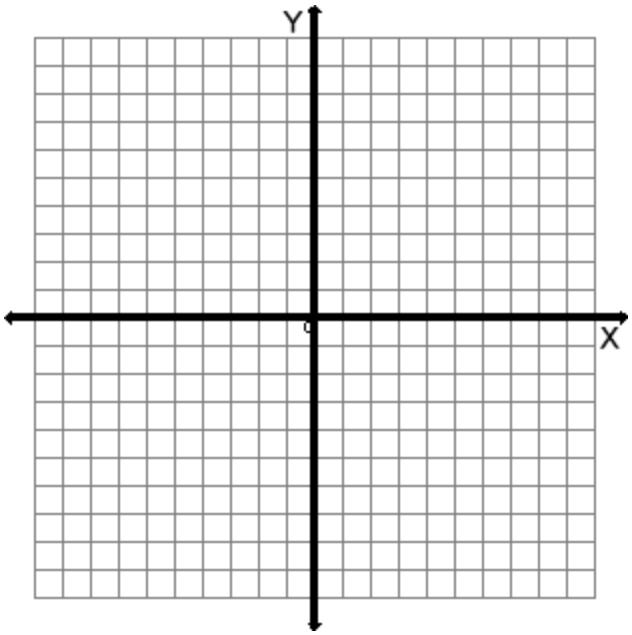
x	y
-3	
-2	
-1	
0	
1	
2	
3	



Is it a function?

Now find the inverse.

x	y
	-3
	-2
	-1
	0
	1
	2
	3



Is it a function?